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NOTICE OF ALLOWANCE AND FEE(S) DUE

37013

7590

06/27/2008

ROSSI, KIMMS & McDOWELL LLP. P.O. BOX 826 ASHBURN, VA 20146-0826 EXAMINER

QUARTERMAN, KEVIN J

ART UNIT PAPER NUMBER

2889 DATE MAILED: 06/27/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/520,951	01/11/2005	Noriyuki Matsukaze	FUJI:329	4879

TITLE OF INVENTION: ORGANIC MULTICOLOR EMISSION AND DISPLAY DEVICE AND METHOD FOR MANUFACTURING SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	09/29/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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37013 ROSSI, KIMM P.O. BOX 826 ASHBURN, VA	7590 06/27 IS & McDOWELI \$\text{20146-0826}\$			Cert	ificate	e of Mailing or Transı	
							(Depositor's name)
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APPLICATION NO. 10/520,951	01/11/2005		FIRST NAMED INVENTOR Noriyuki Matsukaze		ATTO	RNEY DOCKET NO. FUJI:329	CONFIRMATION NO. 4879
	: ORGANIC MULTICO	LOR EMISSION AND I	DISPLAY DEVICE AND N	METHOD FOR MA	NUF/	ACTURING SAME	
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0		\$1740	09/29/2008
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
QUARTERM	AN, KEVIN J	2889	313-506000				
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ND RESIDENCE DATA	'Indication form ed. Use of a Customer A TO BE PRINTED ON '	(1) the names of up to or agents OR, alternativ (2) the name of a single registered attorney or a 2 registered patent attoolisted, no name will be THE PATENT (print or types).	ely, e firm (having as a gent) and the name neys or agents. If rorinted.	memb s of u to nam	er a 2 p to le is 3	
recordation as set fort (A) NAME OF ASSI	h in 37 CFR 3.11. Comp GNEE	oletion of this form is NO	T a substitute for filing an : (B) RESIDENCE: (CITY	and STATE OR Co	OUNT	TRY)	ocument has been filed for buy entity
			b. Payment of Fee(s): (Plea A check is enclosed. Payment by credit car The Director is hereby overpayment, to Depo	se first reapply an	y prev	riously paid issue fee suched.	shown above)
NOTE: The Issue Fee an	s SMALL ENTITY statud d Publication Fee (if requ	is. See 37 CFR 1.27.	☐ b. Applicant is no long				FR 1.27(g)(2). e assignee or other party in
		tes Patent and Trademark					
Authorized Signature							
Typed or printed name This collection of information is required by 37 CFR 1.311. The informat.				_			
an application. Confiden submitting the complete this form and/or suggest	tiality is governed by 35 d application form to the ions for reducing this but irginia 22313-1450. DC	U.S.C. 122 and 37 CFR USPTO. Time will vary den. should be sent to th	1.14. This collection is est depending upon the indivite Chief Information Office	mated to take 12 n idual case. Any cor r. U.S. Patent and	ninutes mment Fraden	s to complete, including s on the amount of time park Office, U.S. Depa	by the USPTO to process) g gathering, preparing, and ne you require to complete uttment of Commerce, P.O. for Patents, P.O. Box 1450,

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P.O. BOX 826			ART UNIT	PAPER NUMBER	
ASHBURN, VA	20146-0826		2889		
			DATE MAILED: 06/27/2008		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 657 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 657 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)
	10/520,951	MATSUKAZE, NORIYUKI
Notice of Allowability	Examiner	Art Unit
	Kevin Quarterman	2889
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commur IGHTS. This application is su	this application. If not included nication will be mailed in due course. THIS
1. 🔀 This communication is responsive to 28 March 2008.		
2. 🔀 The allowed claim(s) is/are <u>1,3-8,10-15 and 31-38</u> .		
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 	be been received. been received in Application	ı No
3. Copies of the certified copies of the priority do	cuments have been received	in this national stage application from the
International Bureau (PCT Rule 17.2(a)). * Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	IENT of this application. itted. Note the attached EXA	MINER'S AMENDMENT or NOTICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) ☐ including changes required by the Notice of Draftspers		(PTO-948) attached
1) hereto or 2) to Paper No./Mail Date	-	,
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1		
each sheet. Replacement sheet(s) should be labeled as such in t 6. DEPOSIT OF and/or INFORMATION about the depo	sit of BIOLOGICAL MATE	RIAL must be submitted. Note the
attached Examiner's comment regarding REQUIREMENT	FOR THE DEPOSIT OF BIO	LOGICAL MATERIAL.
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🗌 Interview Su	
3. Information Disclosure Statements (PTO/SB/08),	7. ☐ Examiner's A	Mail Date Amendment/Comment
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's S	Statement of Reasons for Allowance

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DETAILED ACTION

Response to Amendment

1. Applicant's amendment and remarks received 28 March 2008 have been entered and overcome the claim objections and claim rejections recited in the previous office action.

Allowable Subject Matter

- 2. Claims 1, 3-8, 10-15, and 31-38 are allowed.
- 3. The following is an examiner's statement of reasons for allowance: Regarding independent claim 1, the prior art of record neither shows or suggests an organic multicolor emission and display device comprising, in addition to other limitations of the claim, a gap material that positions the first substrate and the transparent second substrate opposite to each other in such a way that the organic light-emitting element is opposite to the color conversion layer with a predetermined clearance, wherein the gap material placed along the outer peripheral region on the inner surfaces of the first substrate and the transparent second substrate have different porosities between an inner portion of the gap material facing a sealed space and an outer portion of the gap material facing external atmosphere.
- 4. The closest prior art of Yamada (US 6,833,668) to independent claim 1 teaches, in Figure 7, an organic multicolor emission and display device comprising a first substrate (1'); an organic light-emitting element including at least a first electrode (23), an organic light-emitting layer (5), and a transparent second electrode (25) laminated on the first substrate; a transparent second substrate (22); a color conversion filter layer

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- (31) formed on the transparent second substrate, the color conversion filter layer receiving electroluminescence from the organic light-emitting layer and generating colored light; and a gap material (26) that positions the first substrate and the transparent second substrate opposite to each other in such a way that the organic light-emitting element is opposite to the color conversion layer with a predetermined clearance (32), and that seals a space between the first substrate and the transparent second substrate, wherein the gap material is placed along an outer peripheral region on an inner surface of the first substrate, the organic light-emitting element being provided on the inner surface of the first substrate and the organic light-emitting element being absent on the outer peripheral region of the first substrate; and the gap material is placed also along an outer peripheral region on an inner surface of the transparent second substrate, and the color conversion filter layer being provided on the inner surface of the transparent second substrate, and the color conversion filter layer being absent on the outer peripheral region of the transparent second substrate; and the gap material performs function to desiccate atmosphere of a sealed space between the first substrate and the transparent second substrate (col. 9, In. 34-43).
- 5. However, Yamada fails exemplify the gap material placed along the outer peripheral region on the inner surfaces of the first substrate and the transparent second substrate having different porosities between an inner portion of the gap material facing a sealed space and an outer portion of the gap material facing external atmosphere.

 Due to their dependencies upon independent claim 1, claims 2-7 and 37 are also allowable.

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6. Regarding independent claim 8, the prior art of record neither shows or suggests an organic multicolor emission and display device comprising, in addition to other limitations of the claim, a gap material that positions the first substrate and the

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transparent second substrate opposite to each other in such a way that the organic

light-emitting element is opposite to the color conversion layer with a predetermined

clearance, wherein the gap material placed along the outer peripheral region on the

inner surfaces of the first substrate and the transparent second substrate have different

porosities between an inner portion of the gap material facing a sealed space and an

outer portion of the gap material facing external atmosphere.

7. The closest prior art of Yamada (US 6,833,668) to independent claim 1 teaches,

in Figure 7, an organic multicolor emission and display device comprising a first

substrate (1'); a transparent second substrate (22); a color conversion filter layer (31)

formed on the transparent second substrate; an organic light-emitting element including

at least a first electrode (23), an organic light-emitting layer (5), and a transparent

second electrode (25), the light-emitting element being formed on the color conversion

filter layer with the transparent second electrode facing the color conversion filter layer;

and a gap material (26) that positions the first substrate and the second substrate

opposite to each other in such a way that the organic light-emitting element is opposite

to the first substrate with a predetermined clearance (3), and that seals a space

between the first substrate and the second substrate, wherein the gap material is placed

along an outer peripheral region on an inner surface of the second substrate, functional

layers including the color conversion filter layer and the organic light-emitting element

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being provided on the inner surface of the second substrate and the functional layers being absent on the outer peripheral region of the second substrate; and the gap material is placed also along a peripheral region on an inner surface of the first substrate, the peripheral region of the first substrate being opposite to the peripheral region of the inner surface of the second substrate; and the gap material performs function to desiccate atmosphere of a sealed space between the first substrate and the second substrate (col. 9, ln. 34-43).

- 8. However, Yamada fails exemplify the gap material placed along the outer peripheral region on the inner surfaces of the first substrate and the transparent second substrate having different porosities between an inner portion of the gap material facing a sealed space and an outer portion of the gap material facing external atmosphere.

 Due to their dependencies upon independent claim 8, claims 10-15, 31-36, and 38 are also allowable.
- 9. The subject gap material described earlier is provided for maintaining stable light emitting performance in an organic multicolor emission and display device. The design is new and unique to the art.
- 10. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Quarterman whose telephone number is (571)272-2461. The examiner can normally be reached on M-TH (7-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Minh-Toan Ton can be reached on (571) 272-2303. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Kevin Quarterman Examiner Art Unit 2889 /Karabi Guharay/ Primary Examiner, Art Unit 2889

/K. Q./ Examiner, Art Unit 2889 27 June 2008